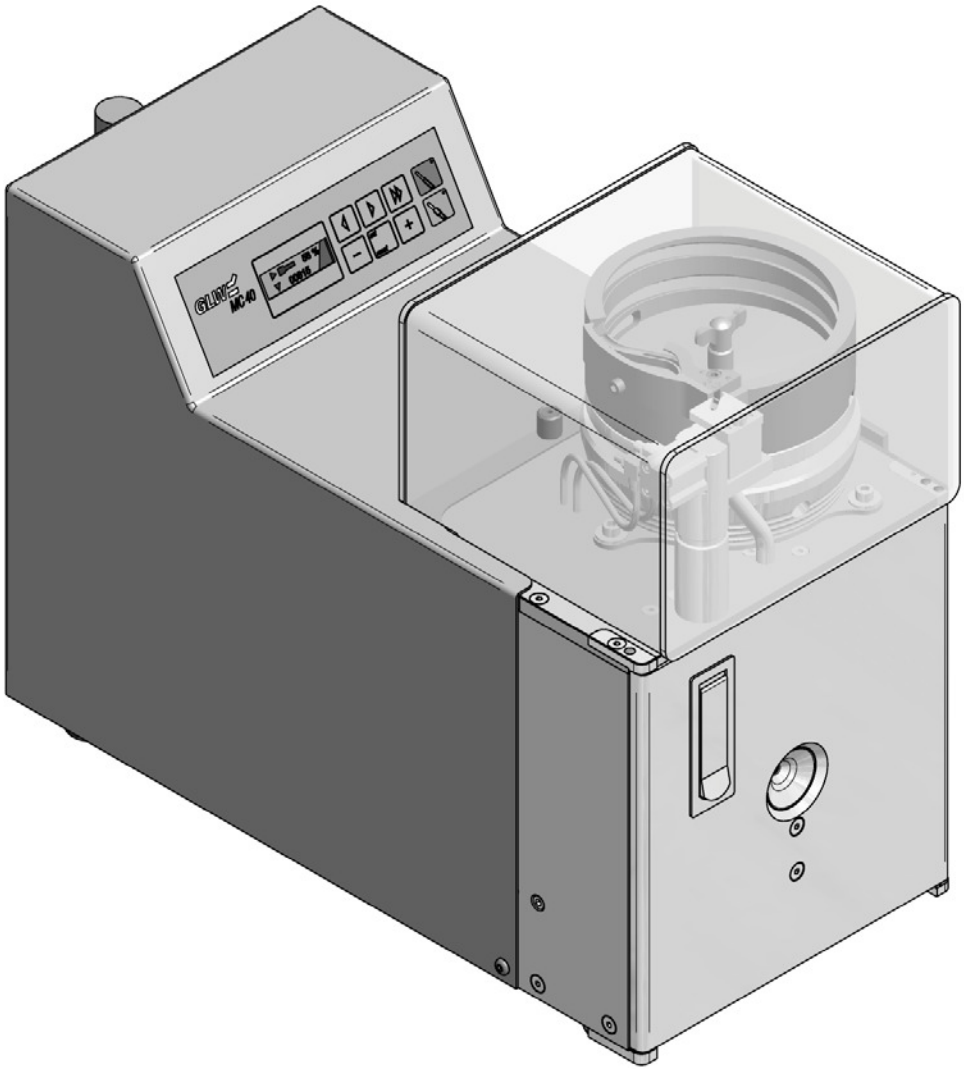
GLW
Crimping Technology



Operating Instructions
Wire Stripping and Crimping Machine
MC 40-1 / MC 40L

CE

05/2014

Save this instruction for further use!

Table of contents

1 Basic information 2
1.1 Intended use 2
1.2 Work sites 3
1.3 For your safety 3

2 Description of the MC 40 4
2.1 Scope of supply 4
2.2 Suitable ferrules and retrofit kits 5
2.3 Overview of the operating components 6
2.4 Control panel 7

3 Starting up and operating 8
3.1 Selecting the installation site 8
3.2 Determine the cross section 8
3.3 Stripping and crimping 9

4 Maintenance 11
4.1 Daily care 11
4.2 Adjusting and changing the stripping blade 12

5 Retrofitting 14
5.1 Changing the cross section 14
5.2 Changing the crimping length 16

6 Troubleshooting 17
6.1 MC 40 does not run after being switched on 17
6.2 Start process is not being initiated 18
6.3 Conductor insulation is not removed completely 18
6.4 Ferrule in-feed is disrupted 19

A Technical appendix 20
A 1 Technical data 20
A 2 EC Declaration of Conformity 21
A 3 Spare parts 23

1 Basic information

For greater clarity, only the order designation MC 40 is used throughout this document.

For safe handling and trouble-free operation of the MC 40, you must be familiar with and observe the safety notes.

1.1 Intended use

WARNING: The MC 40 is intended solely for stripping and crimping.

In doing so, the conductor and ferrules with cross section or sleeve length according to "Suitable ferrules and retrofit kits" on page 5 are to be used.

Only the PVC-insulated conductors may be inserted into the insertion funnel on the MC 40 for processing. Under no circumstances should solid metal parts or other similar objects be inserted. This damages the stripping blade.

Unauthorized conversions that exceed the scope of modification, and changes to the MC 40 are not permitted for safety reasons.

NOTE: Correct usage includes observing all notes and complying with the predefined operating conditions.

WARNING: The MC 40 may only be used
- as intended and
- when in safe and fault-free condition.

WARNING: All persons responsible for commissioning, operating and maintenance of the MC 40 must
- be appropriately qualified and
- adhere strictly to this user manual.

With the MC 40, you can either:
- Strip conductors automatically or
- Strip conductors automatically and crimp with ferrules.

Flexible conductors of class 2, 5, and 6 standard according to DIN VDE 0295 and ferrules as loose products according to DIN 46228-4 are processed.

NOTE: Use only ferrules and spare parts from GLW.

Permitted operators

Only authorized and instructed operators may work with the MC 40.

The operator is responsible for all other persons within the workspace.

The owner must
- make the user manual available to the operator and
- ensure that the operator has read and understood it.

1.2 Work sites

NOTE: For operation and storage, avoid the following:
– humid or dusty places and
– locations exposed to high levels of heat, direct sunlight or low temperatures (operating range: 15°C to 35°C)

NOTE:
If the machine is moved from a cold location to a warm location, condensation can form.
- Before using the MC 40, open the front door and allow condensation to evaporate.

NOTE:
- Do not spill liquids on the MC 40.
- Do not expose the MC 40 to strong vibrations or shocks.

NOTE:
- Protect the compressed air hoses from heat, oil and sharp edges.

1.3 For your safety

WARNING: The front door is installed for the safety of the operator. Under no circumstances must it be modified, removed or bypassed using attachments.

WARNING:
- Only use filtered compressed air with a maximum pressure of 6 bar.

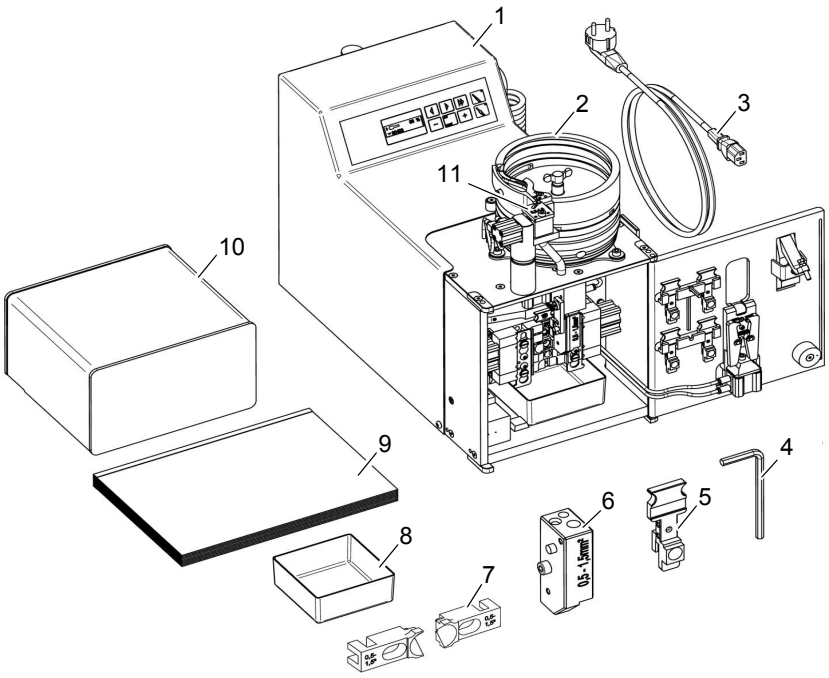
WARNING:
- Only operate the MC 40 when the front door is closed.
- Disconnect the mains plug and the compressed air plug prior to all work that requires opening the front door (e.g., retrofitting, remedial action).
- Switch off the MC 40 and disconnect the device from the compressed air during a break or when the device is not in use.
- Do **not** pull on the compressed air hose to disconnect the compressed air.
- Make sure that there are no foreign objects inside the housing.

For safety reasons, the MC 40 automatically switches itself off if the compressed air is disconnected.

WARNING:
- Before opening the housing, disconnect the mains plug and disconnect the device from the compressed air.

2 Description of the MC 40

2.1 Scope of supply



1 Basic device
2 Feeder bowl
3 Mains cable
4 Hexagonal wrench
5 Sleeve receiver
6 Reversing base sleeve
7 Cord-centering funnel
8 Waste box
9 User manual
10 Covering hood
11 Separation plate
The components have the same color-code as the ferrules (according to DIN color range)

Table 2-1 Scope of supply

Device	Scope of supply	
MC 40-1 and MC 40L	Basic device	
	Mains cable	
	Waste box	
	Covering hood	
	Hexagonal wrench	4 5/32"
Only MC 40-1	Feeder bowl	0.5 ... 1.5 mm²
	Separation plate	0.5 ... 1.5 mm²
	Cord-centering funnel	0.5 ... 1.5 mm²
	Reversing base sleeve	0.5 ... 1.5 mm²
	Sleeve receiver	0.5/0.75/1.0/1.5 mm², 4 items
	Crimping jaws	0.5 ... 2.5 mm² (≥ 12 mm crimping jaws)
	Stripping blade with blade holder	

2.2 Suitable ferrules and retrofit kits

With the MC 40, you can either:

– strip conductors automatically or

– strip conductors automatically and crimp with ferrules.

Flexible conductors of class 2, 5, and 6 standard according to DIN VDE 0295 and ferrules as loose products according to DIN 46228-4 are processed.

The following loose ferrules can be processed with the MC 40:

Table 2-2 Suitable ferrules

Basic device	Cross-section mm^2	Sleeve length mm	DIN color range	Comment	Order No.
MC 40-1	0.25/0.34 0.25/0.34	6 8	yellow/ turquoise	MC 40-TOOLKIT 0,34/ 6-8	006646
	0.50 0.50 0.50 0.50	6 8 10 12	white		
	0.75 0.75 0.75 0.75	6 8 10 12	gray		included in MC 40-1
	1.00 1.00 1.00 1.00	6 8 10 12	red		
	1.50 1.50 1.50 1.50	6 8 10 12	black		
	2.50	8 10 12	blue	MC 40-TOOLKIT 2,5	006645
	4.00	10	gray	MC 40-TOOLKIT 4,0/10	006650
MC 40L	4.00	10 12	gray	MC 40L-TOOLKIT 4/10-12	006630
	6.00	12	yellow	MC 40L-TOOLKIT 6-12	006813
	10.00	12	red	MC 40L-TOOLKIT 10-12	006814

The MC 40 retrofit kit...-TOOLKIT.... is a case that contains

– Feeder bowl

– Reversing base sleeve

– Cord-centering funnel

– Sleeve receiver

– Separation plate

– Stripping blade (not required MC 40-TOOLKIT 2,5)

– Crimping jaws (not required MC 40-TOOLKIT 2,5)

2.3 Overview of the operating components

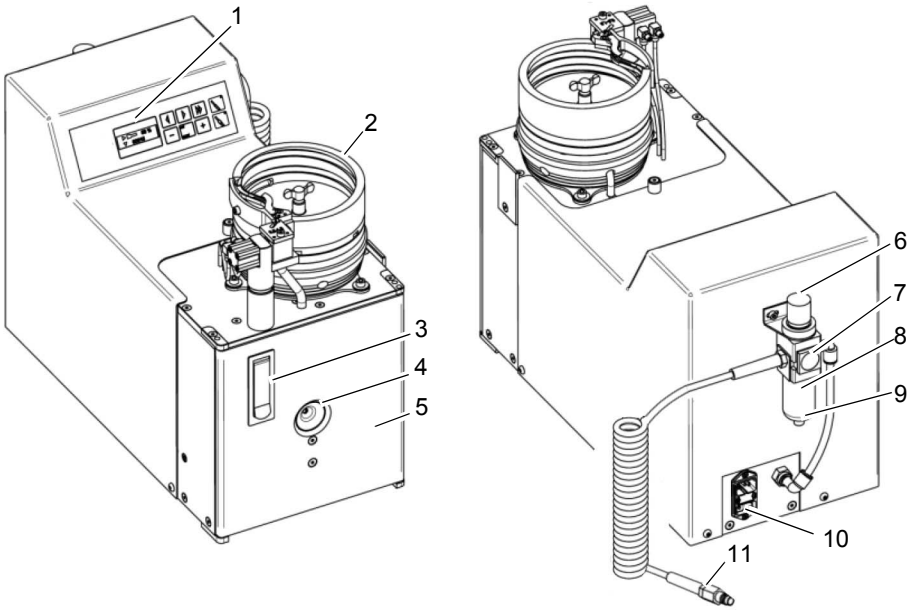
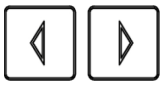
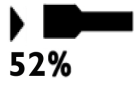
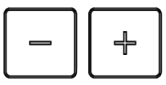
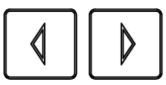


Figure 2-1 Operating components

1	Control panel	See page 7 for description	**7**	Manometer	Display of the air pressure set using the air pressure regulator
2	Feeder bowl	Storage holder for ferrules	**8**	Water separator	Container for condensation
3	Door lock	Locks the front door. The front door is opened by pressing the lower segment and is closed by pressing on the upper segment.	**9**	Drain valve	For draining the water separator
4	Insertion funnel	The conductor is inserted through the insertion funnel in the MC 40.	**10**	Mains connection	Device connection for the power cable with integrated micro-fuse and switch, wide range power supply unit 120 ... 240 V
5	Front door	Protects the operator from moving parts in the MC 40. The MC 40 only works when the front door is closed.	**11**	Compressed air connection	Device connection to the compressed air supply
6	Air pressure regulator	Setting the air pressure Set the air pressure by pulling the regulator upwards and turning to the right (+) or left (-).			

2.4 Control panel

Table 2-3 Button functions

Button	Display	Button function
 	 	Select operating mode Strip only For testing the incision depth of the blade. The LED on the button lights up. Strip and crimp The LED on the button lights up.
  	 100 %  52%	**Changing the speed of the feeder bowl** Increases the speed of filling the feeder bowl if new ferrules have been filled. Display shows 100%. The speed of the feeder bowl can be changed using the arrow buttons. The speed is shown in percent in the display.
2 s	▲00000	**Setting the counter to zero** Pressing the set/reset button for two seconds resets the counter to zero.
5 s	▲ ▼ 	**Changing the counting direction** Pressing the set/rest button for five seconds changes the counting direction. The counting direction is shown in the display. ▲ Forwards (1, 2, 3, ...) ▼ Backwards (..., 3, 2, 1) When counting backwards, a checkered flag appears at 0 items. The device can no longer be started. Turn the MC 40 off and on again. The MC 40 changes to forwards mode.
   	▼00647	**Changing the counter reading with backwards counting** Press the set/reset button briefly to change the counter reading. The selected number flashes. The selected number can be changed using the plus or minus button. Another position within the five digit number can be selected using the arrow buttons. To save, press the set/reset button again.

3 Starting up and operating

3.1 Selecting the installation site

NOTE: The device must be set up on a level and horizontal surface.

NOTE: For operation and storage, avoid the following:
– humid or dusty places and
– locations exposed to high levels of heat, direct sunlight or low temperatures (operating range: 15°C ... 35°C).

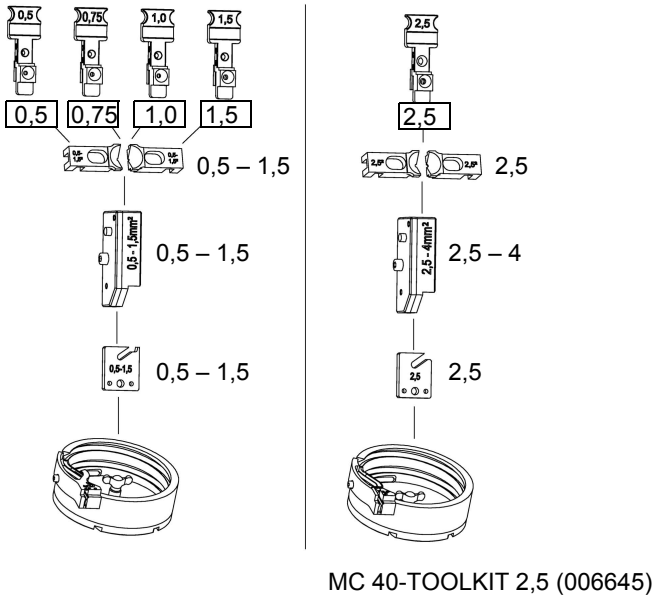
NOTE: If the machine is moved from a cold location to a warm location, condensation can form.
• Before using the MC 40, open the front door and allow condensation to evaporate.

NOTE:
• Do not spill liquids on the MC 40.
• Do not expose the MC 40 to strong vibrations or shocks.

NOTE:
• Protect the compressed air hoses from heat, oil and sharp edges.

3.2 Determine the cross section

Check that the MC 40-1 is equipped for the desired cross section. If necessary, upgrade the MC 40-1 (see "Retrofitting" on page 14).



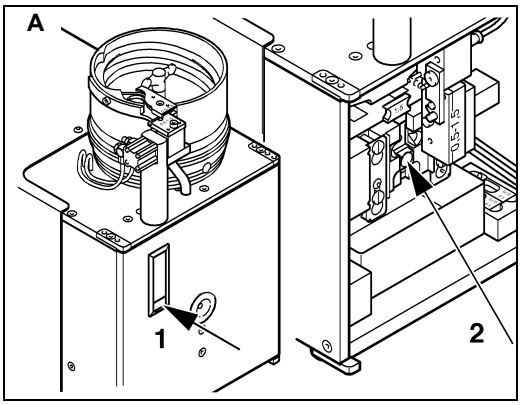
MC 40-TOOLKIT 2,5 (006645)

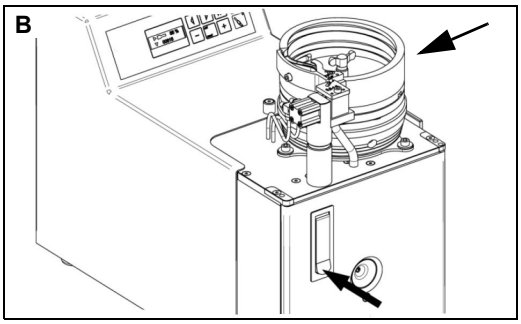
Figure 3-1 Example of MC 40-1 (value in mm²)

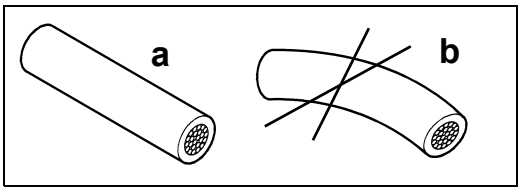
3.3 Stripping and crimping

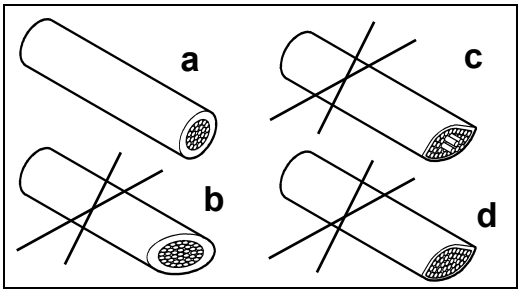
With the MC 40, you can either:

– Strip conductors automatically or
– Strip conductors automatically and crimp with ferrules.









Checking the sleeve receiver

WARNING: Risk of injury!
Disconnect the mains plug and the compressed air before you open the front door.

- Switch off the MC 40 with the mains switch.
- Disconnect the mains plug.
- Disconnect the compressed air connection.
- Open the front door (1).

A Stripping

- Check that the sleeve receiver and litz wire centering funnel are compliant for the conductor cross section.
  Modify if necessary (see page 14).
- Check whether sleeve receiver (2) is free from ferrules.

B Stripping and crimping

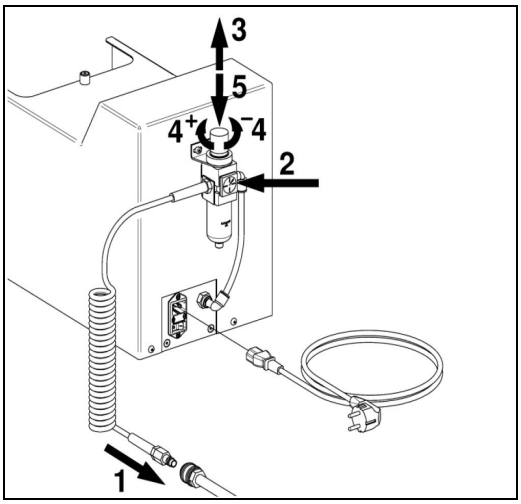
- Check for the correct cross section setting.
  Modify if necessary (see page 14).
- Fill ferrules into the feeder bowl
  (max. 500 pieces (MC 40-1)/max. 200 pieces (MC 40L)).
- Close front door.

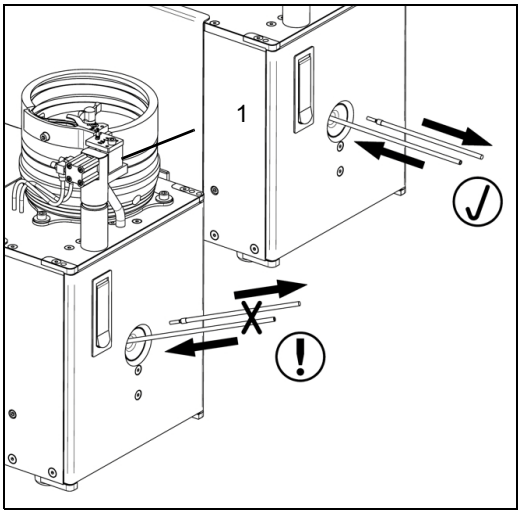
Aligning the conductor

- The conductor has to be aligned as straight as possible before processing.
  a) Bend is OK, maximum 2 – 3 mm at 6 mm length
  b) Bend too large

Cutting the conductor

- Cut the conductor off in a clean and straight motion, for example
  a) Proper cut
  b) Cut surface angled
  c) Cut surface squeezed, single conductors pulled out
  d) Cut surface squeezed





Connecting MC 40

MC 40-1: 4.5 bar ... 6 bar of filtered air
MC 40L: 5 bar ... 6 bar of filtered air

- Connect compressed air connection (1) to the compressed air supply.
- Check air pressure at manometer (2):
  operating pressure 5 bar, at least 4.5 bar (MC 40-1)
  operating pressure 5.5 bar, at least 5 bar (MC 40L)
- Set air pressure, if necessary. Pull the air pressure regulator (3) upwards, set the air pressure by turning (4) to the right (+) or left (-) and then press the regulator (5) downwards.
- Connect the mains plug to the MC 40 mains connection and the shock-proof plug to the mains socket.

Stripping conductors

A Stripping

Press the "Strip" button.

B Stripping and crimping

Press the "Strip and crimp" button.

Set the speed of the feeder bowl.

Wait until the ferrule is visible at the separation plate (1).

A and B

- Insert the conductor straight into the insertion funnel until it stops. As soon as the MC 40 starts, hold the conductor with slight tension.
  The conductor is automatically stripped.
- When the MC 40 has stopped, pull the conductor out.

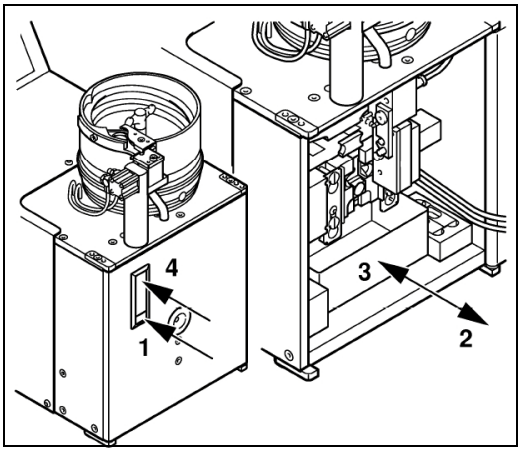
In the event of a malfunction or improper stripping, see page 17.

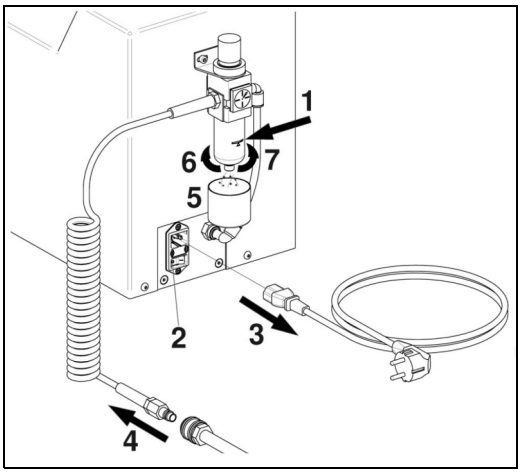
Shutting down

- If necessary, read the counter and reset to zero.
- Switch off the MC 40 with the mains switch.

4 Maintenance

4.1 Daily care





Cleaning MC 40

WARNING: Risk of injury!
Disconnect the mains plug and the compressed air before you open the front door.

- Switch off the MC 40 with the mains switch.
- Disconnect the mains plug.
- Disconnect the compressed air connection.
- Open the front door (1).
- Empty the drawer (2).
- Clean the inside.
- Replace the drawer (3).
- Close the front door (4).

Checking the level of condensation

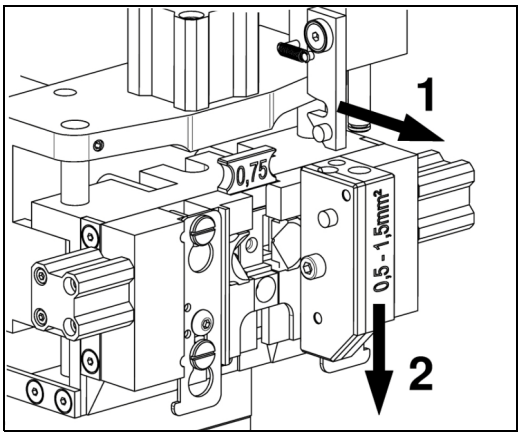
WARNING: Risk of injury!
Disconnect the mains plug and the compressed air before opening the drain valve.

- Check the water level in the water separator (1).

If water is in the water separator:

- Switch off the MC 40 at the mains switch (2).
- Disconnect the mains plug (3).
- Disconnect the compressed air connection (4).
- Store the container (5).
- Open the drain valve (6).
- Drain the water.
- Close the drain valve (7).
- Plug in the mains plug.
- Connect the compressed air connection.

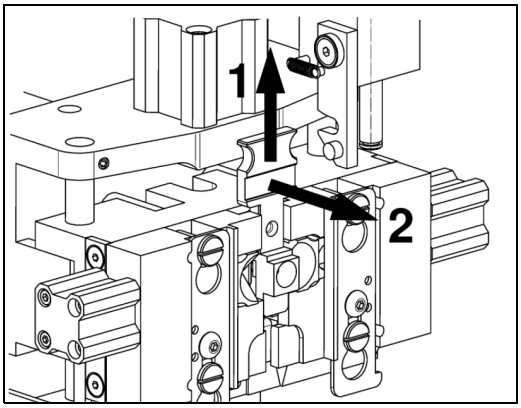
4.2 Adjusting and changing the stripping blade



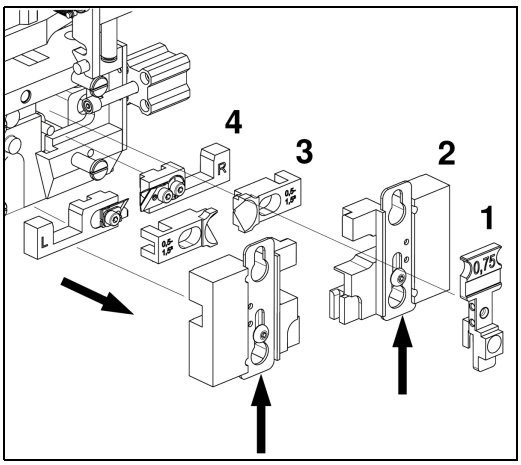
Removing the stripping blade

WARNING: Risk of injury!
Disconnect the mains plug and the compressed air before you open the front door.

- Pull the release lever (1) forwards.
- Remove the reversing base sleeve (2) downwards.



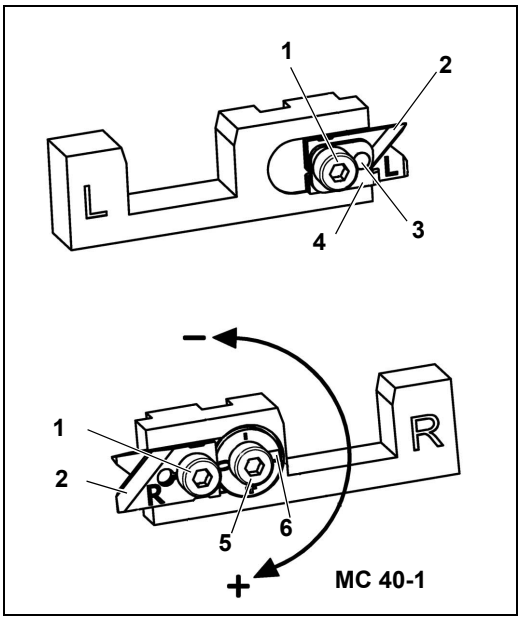
- Pull the sleeve receiver (1) upwards, remove from the holder (2).

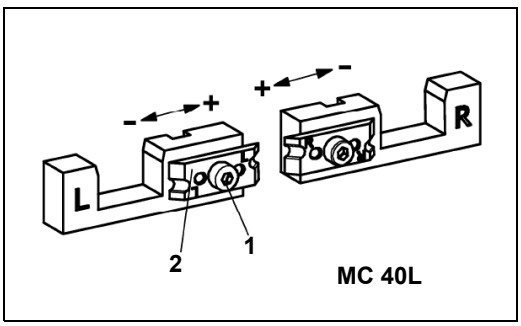


- Slide the slide upwards and pull the holder (2) forwards.
- Remove the second holder in the same way.
- Remove the cord-centering funnels (3) to the left and right.

WARNING: Risk of injury!
The stripping blades are sharp. Be careful not to injure yourself.

- Take out both the left and right stripping blades (4).
- Worn-out or damaged blades must be replaced.
- If the blades are still in working order, the malfunction can be rectified by correcting the incision depth on the right-side blade.





MC 40-1: Changing the stripping blade

WARNING: Risk of injury!
The stripping blades are sharp. Be careful not to injure yourself.

Left blade

- Unscrew the Allen screw (1) and take out the old blade (2).
- Put new blade on the pin (3).
- Fix the limit plate (4).
- Tighten the Allen screw (1).

Right blade

- Unscrew the Allen screw (1) and take out the old blade (2).
- Fix new blade.
- Loosen the Allen screw (5).
- Attach tappet over the groove (6) at the correct incision depth (0 = initial position).
- Press the blade against the tappet and tighten both Allen screws (1) and (5).

MC 40L: Changing the stripping blade

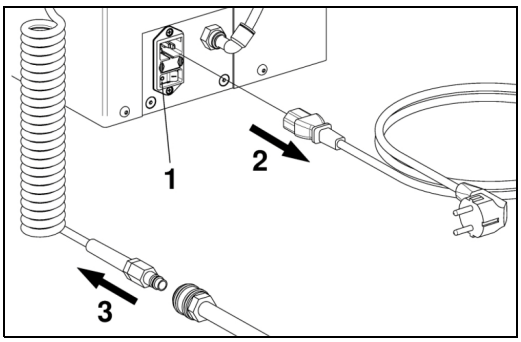
WARNING: Risk of injury!
The stripping blades are sharp. Be careful not to injure yourself.

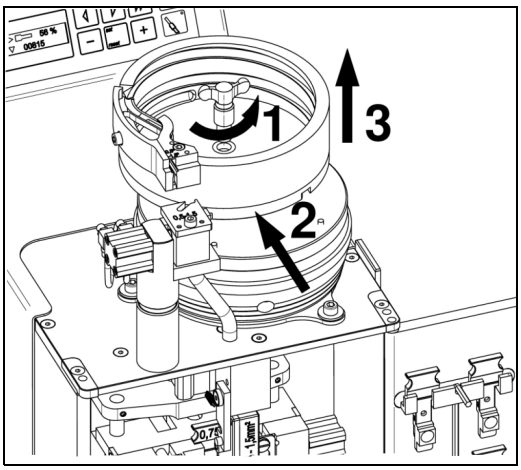
- Unscrew the Allen screw (1) and take out the old blade (2).
- Attach the new blade to the guiding pin (3).
- Adjust the incision depth of the stripping blade to the conductor to be processed.

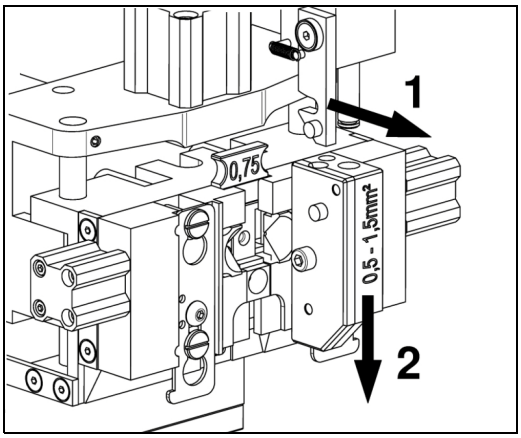
  Adjusting the blade changes the incision depth by ±0.25 mm.
- Tighten Allen screw (1).
- Check incision depth by stripping a conductor. The copper strands must not be cut by the stripping blade.

5 Retrofitting

5.1 Changing the cross section







Preparing the modification

WARNING: Risk of injury!
Disconnect the mains plug and the compressed air before you open the front door!

- Switch off the MC 40 with the mains switch (1).
- Disconnect the mains plug (2).
- Disconnect the compressed air connection (3).
- Open the front door.

Retrofit kits, see page 5.

Changing the feeder bowl

MC 40-1: Change the feeder bowl during a cross section change from 0.5/0.75/1.0/1.5 ↔ 2.5

MC 40L: Change the feeder bowl every time the cross section is changed.

- Unscrew the winged screw (1)
- Move the feeder bowl to the side (2), pull upwards (3) and empty.

NOTE: Ensure that all ferrules are removed, especially from the slot under the baffle.

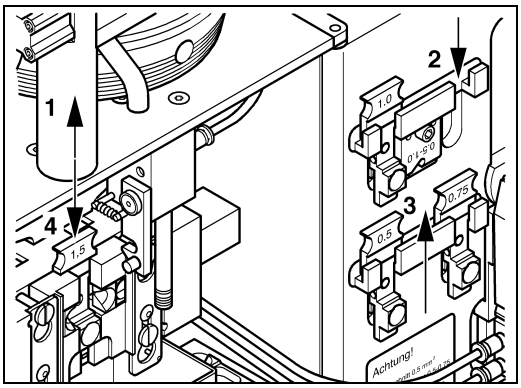
- Attach the feeder bowl in such a way that it slides into the centering pins and tighten the winged screw.

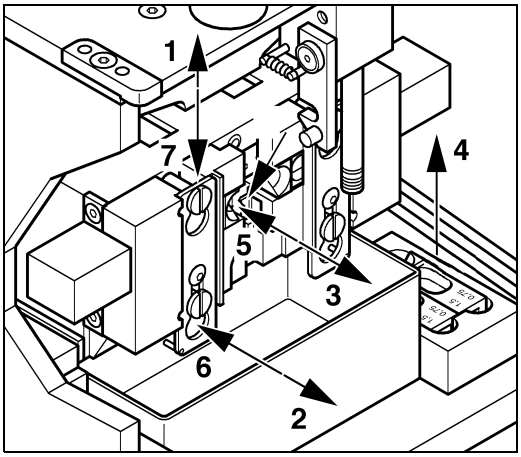
Changing the reversing base sleeve

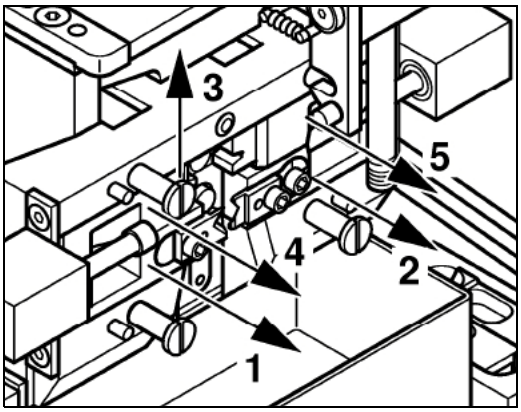
MC 40-1: Change the reversing base sleeve during a cross section change from 0.5/0.75/1.0/1.5 ↔ 2.5.

MC 40L: Change the reversing base sleeve every time the cross section is changed.

- Pull the release lever (1) forwards.
- Remove the reversing base sleeve (2) downwards.
- Hold the release lever in the forward position and attach the reversing base sleeve with the desired cross section.
- Lock the release lever into place.







Changing the sleeve receiver

The sleeve receiver must be changed every time the cross section is changed.

- Remove the reversing base sleeve (see page 14).
- Pull the sleeve receiver (1) upwards, remove from the holder and insert into the transport holder (2).
- Insert the sleeve receiver into the holder using the desired cross section (3) and push downwards (4).

NOTE: Check for correct lock-in position.

- Install reversing base sleeve.

Changing the cord-centering funnel

MC 40-1: The cord-centering funnels must be changed during a 0.5...1.5 ↔ 2.5 cross section change.

MC 40L: The cord-centering funnels must be changed every time the cross section is changed.

- Remove the reversing base sleeve and sleeve receiver (see above).
- Slide the slide (1) upwards and pull the holder (2) forwards.
- Remove the second holder in the same way.
- Remove both cord-centering funnels (3).
- Attach the cord-centering funnels onto the driving pins (5) with the desired cross section (4).
- Attach the holders (6) and press the slide (7) downwards.
- Install the sleeve receiver and reversing base sleeve.

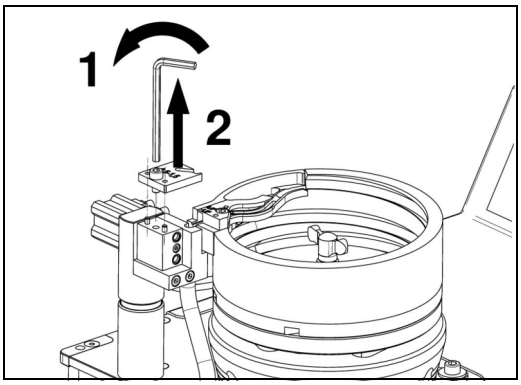
Changing the stripping blade and crimping jaws

MC 40-1: No change.

MC 40L: The crimping jaws and stripping blade must be altered during a cross section change.

- The steps for removing the cord-centering funnels are mentioned above.
- Take out both of the stripping blades (1 + 2).
- Slide the cassette (3) upwards.
- Take out both of the crimping jaws (4 + 5).
- Attach in the reverse order.

NOTE: Check for correct lock-in position.



Changing the separation plates

MC 40-1: The separation plates must be changed during a 0.5...1.5 ↔ 2.5 cross section change.

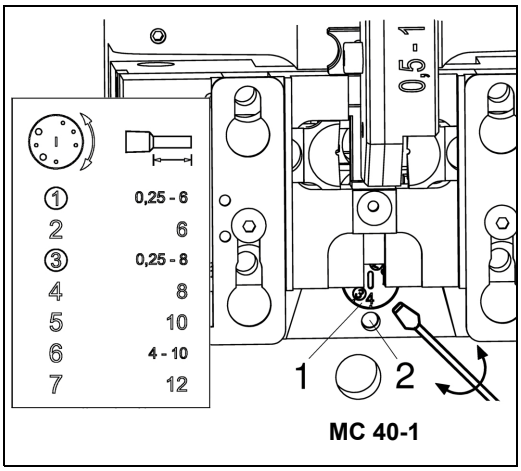
MC 40L: The separation plate must be changed during a 4 ↔ 6 ↔ 10 cross section change.

- Unscrew the separation plate (1) using the hexagonal wrench and remove (2)
- Remove the separation plate from the retrofit kit with the desired cross section and attach in place of the previous separation plate.

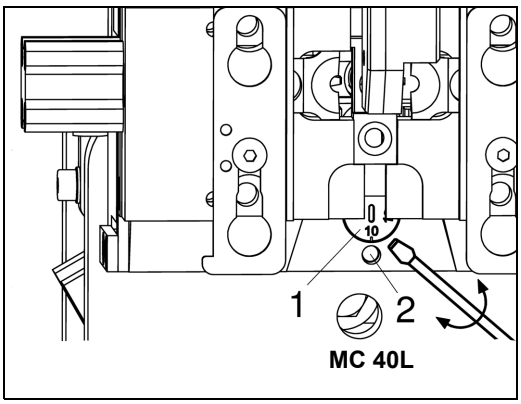
5.2 Changing the crimping length

Changing the crimping length

The crimping length is changed using a rotary dial.



MC 40-1



MC 40L

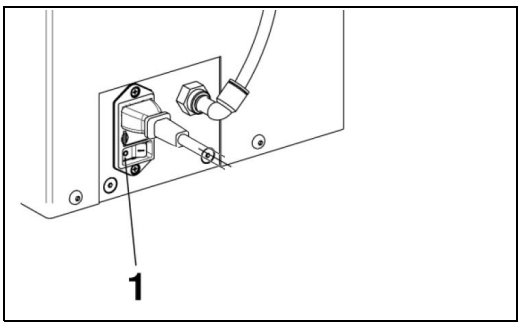
Changing the rotary dial

- Follow the steps mentioned above to remove the stripping blade and crimping jaws (see page 15).
- Insert the rotary dial (1) at the desired crimping length using a screwdriver.

  The selected value is shown via the red marker (2).
- Re-attach individual parts.

6 Troubleshooting

6.1 MC 40 does not run after being switched on



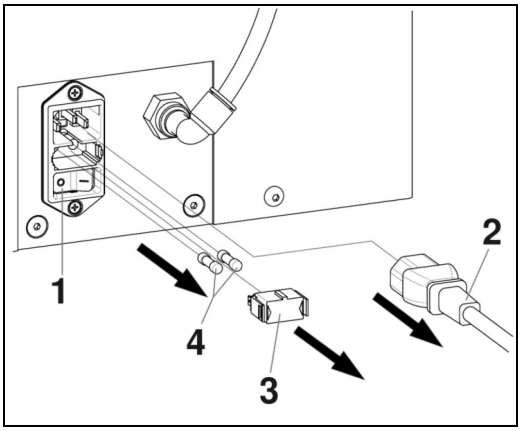
Check the mains indicator

Mains indicator (1) is not lit:

- Check air pressure.

Mains indicator (1) is not lit:

- Check whether the mains plug is connected to the MC 40 mains connection and the shock-proof plug is connected to the mains socket.
- Check whether the power supply at the mains socket is O.K.
- If O.K., check the mains fuse.

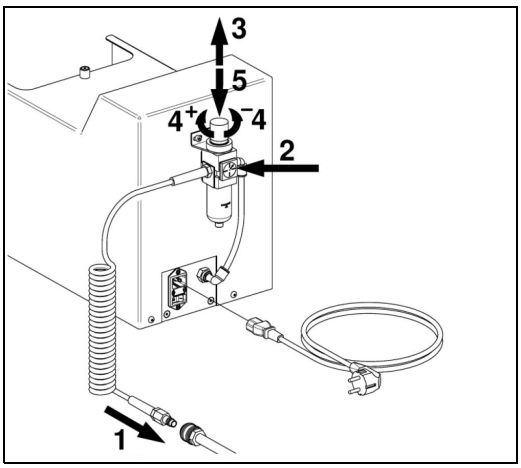


Check the mains fuse

WARNING: Risk of injury!
In order to check the mains fuse, the mains connection has to be open. Disconnect the mains plug first!

- Switch off the MC 40 with the mains switch (1).
- Disconnect the mains plug (2).
- Pull out the fuse holder (3).
- Checking the mains fuse (4).
- Replace the defect mains fuse with the backup fuse. Retrofit the backup fuse.
- Insert the fuse holder.

NOTE: The fuse holder should snap into place.



Check the air pressure

- Disconnect the compressed air connection (1).
- Check the air pressure at the manometer (2):
  MC 40-1: 5 bar
  MC 40L: 5.5 bar

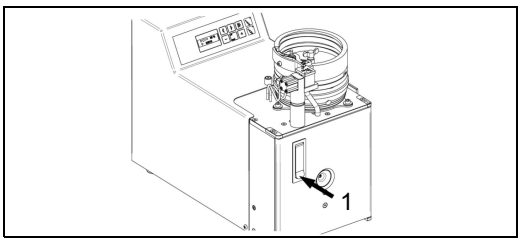
No pressure present:

- Check whether the compressed air connection is connected to the compressed air supply.
- Check whether the compressed air supply is O.K.

Pressure is not 5 bar/5.5 bar:

- Pull the air pressure regulator (3) upwards.
- Set the air pressure by turning (4) to the right (+) or left (-).
- Then press the regulator (5) downwards.

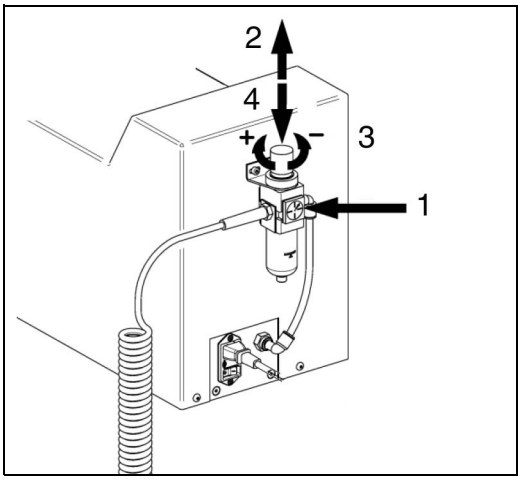
6.2 Start process is not being initiated



If the conductor is inserted, the MC 40 will not start.

Check the front door

- Check that the front door (1) is completely closed and locked.



Check the air pressure

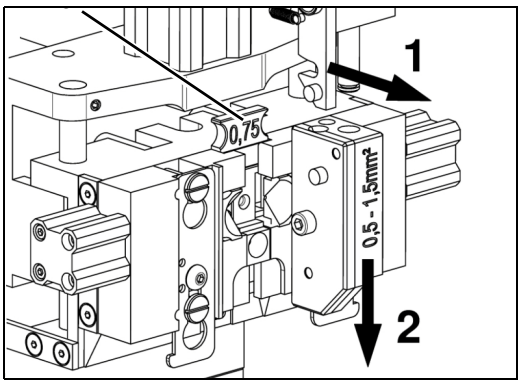
- Check air pressure at the manometer (1):
  MC 40-1: 5 bar
  MC 40L: 5.5 bar

No pressure present:

- Check whether the compressed air connection is connected to the compressed air supply.
- Check whether the compressed air supply is O.K.

Pressure is not 5 bar/5.5 bar:

- Disconnect the compressed air connection.
- Pull the air pressure regulator (2) upwards.
- Set the air pressure by turning (3) to the right (+) or left (-).
- Then press the regulator (4) downwards.



Check sleeve receiver

WARNING: Risk of injury!
Disconnect the mains plug and the compressed air before you open the front door.

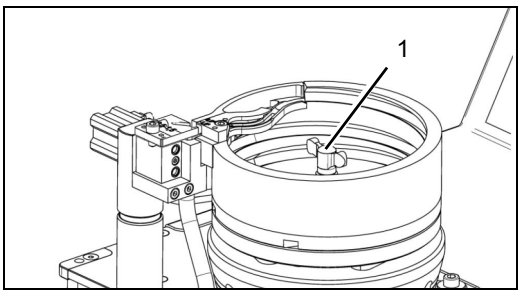
- Pull the release lever (1) forwards.
- Remove the reversing base sleeve (2) downwards.
- Check that the sleeve receiver (3) is positioned correctly and is snapped into place in the ball latch.
- Install sleeve receiver.
- Close front door.

6.3 Conductor insulation is not removed completely

Check cross section

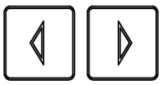
- If the conductor isn't properly stripped, first check that the MC 40 is fitted with the correct retrofit kit.
- Adjust the retrofit kit to suit the selected conductor cross section (see page 14).
- Also check the conductor cross section.
- If the the malfunction continues despite having the correct retrofit kit, check the stripping blade (see page 12).

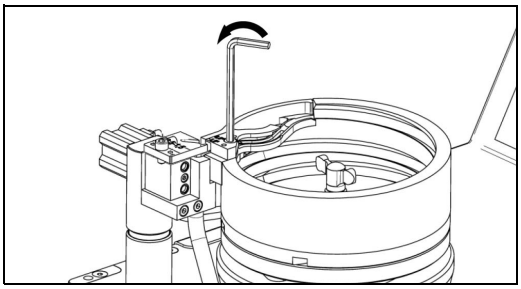
6.4 Ferrule in-feed is disrupted



Check the feeder bowl

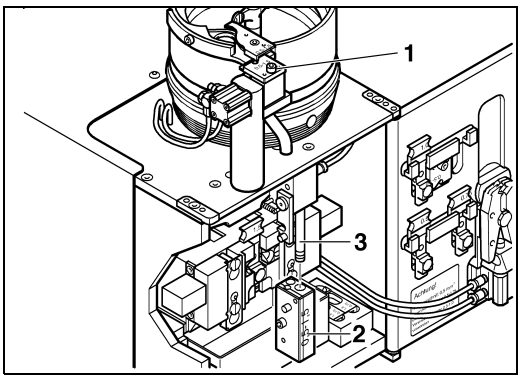
- Check if the winged screw (1) is loose, if necessary, re-tighten.
- Tuck the ferrules into the transport grooves.
- Change the speed of the feeder bowl.





Check the baffles

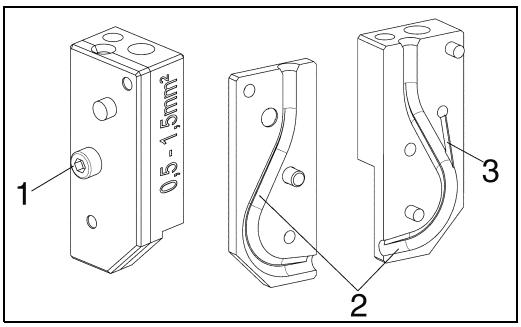
- Switch off the MC 40 at the mains switch.
- Unscrew the baffle covering with the hexagonal wrench.
- Remove the defect ferrules.



Check the sleeve feeding

WARNING: Risk of injury!
Disconnect the mains plug and the compressed air before you open the front door.

- Unscrew the separation plate (1) using the hexagonal wrench.
- Remove the reversing base sleeve (2).
- Push the cable through the feeder (3) and, if necessary, remove the crimped ferrules.



Check the reversing base sleeve

- Unscrew allen screw (1) on the reversing base sleeve using a hexagonal wrench and open the reversing base sleeve.
- Remove the crimped ferrules.
- Clean the feeder channel (2) and air pressure channel (3).

A Technical appendix

A 1 Technical data

Technical data	
Mains connection	120 V/60 Hz ... 230 V/50 Hz
Power consumption	50 VA
Compressed air connection	
MC 40-1	At least 4.5 bar, maximum 6 bar 1/4" plug-in nipple inner thread (Euro standard)
MC 40L	At least 5 bar, maximum 6 bar
Compressed air consumption	1.2 l/cycle
Cycle time	
MC 40-1	1.3 s
MC 40L	1.5 s
Workspace	
MC 40-1	0.25 mm^2 ... 4 mm^2
MC 40L	4 mm^2 ... 10 mm^2
Ferrules	Loose according to DIN 46228-4
Crimping	Trapezoidal
Conductor	Class 2, 5, and 6 according to DIN VDE 0295
Control	Electrical/pneumatic
Counter	5-digit, can be reset
Dimensions (W x H x D)	240 mm x 390 mm x 490 mm
Weight	28 kg

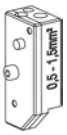
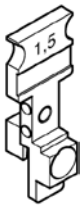
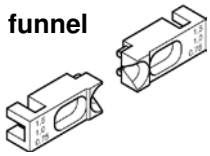
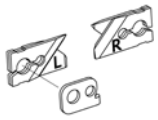
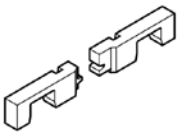
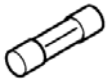
A2 EC Declaration of Conformity

Manufacturer:	GLW GmbH
Address:	Steinbeisstraße 2 88353 Kisslegg Germany

We herewith declare that the machine named in the following complies in its design and type and in the equipment marketed by us with the relevant basic safety and health requirements of the EC machine directive. This declaration becomes void if changes are made to the machine without our permission.

Name of the machines:	Wire stripping and crimping machine
Machine types:	**MC 40-1** **MC 40L**
Relevant EC directives:	**EC-Machine Directive 2006/42/EG** **EC-Low Voltage Directive 2006/95/EG** **EC-Electromagnetic Compatibility Directive 2004/108/EG**
Applied harmonized standards:	**DIN EN ISO 12100-1 und -2:2004** **DIN EN ISO 13857:2008** **DIN EN 349:2008** **DIN EN 60204-1:2006** **DIN EN 50081-1:1993** **DIN EN 50082-2:1994**
Place, date	Kisslegg, 20.01.2014
Legally binding signature:	
Information about the signing person:	Bruno Weiland

A3 Spare parts

Part	Cross section	Order No.	MC 40-1	MC 40L
Feeder bowl	0,25 - 0,34 mm² 0,5 – 1,5 mm² 2,5 - 4 mm² 6 mm² 10 mm²	006602 006601 006603 006651 006652	X X X X	 X X X
Separation plate	0,25/0,34 mm² 0,5 – 1,5 mm² 2,5 mm² 4 mm² 6 mm² 10 mm²	006653 006654 006655 006656 006657 006658	X X X X	 X X X
Reversing base sleeve 	0,25/0,34 mm² 0,5 – 1,5 mm² 2,5/4 mm² 6 mm² 10 mm²	004755 004666 004758 004757 004759	X X X	 X X X
Sleeve receiver 	0,14 mm² 0,25/0,34 mm² 0,5 mm² 0,75 mm² 1 mm² 1,5 mm² 2,5 mm² 4 mm² 4 mm² 6 mm² 10 mm²	006649 006597 006389 006390 006391 006392 006393 006598 006816 006514 006515	X X X X X X X X	 X X X
Cord-centering funnel 	0,25/0,34 mm² 0,5 - 1,5 mm² 2,5 mm² 4 mm² 6 mm² 10 mm²	006604 006521 006605 006522 006659 006660	X X X X	 X X X
Stripping blade 	0,25 – 2,5 mm² 4 mm² 6 mm² 10 mm²	006642 004765 004768 004769	X X	 X X X
Crimping jaws 	0,25–0,34 mm²-8 0,5-2,5 mm² - 12 4 mm² - 10 mm 4 mm² - 12 mm 6 mm² - 12 mm 10 mm² - 12 mm	006506 006504 004764 006661 006662 006663	X X X	 X X X
Mains fuse 	T2A/250V 5 x 20 mm	004177	X	X

GLW GmbH
Steinbeisstraße 2
88353 Kisslegg
Germany

Phone +49 7563 9123-0
Telefax +49 7563 9123-99

Copyright on these operating instructions is held by the company GLW.

Reprinting, copying or translation of this document, either in whole or in part, is not permissible without our express permission.

© 2014 GLW GmbH

102648_de_03